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Summary of Safety and Effectiveness

Submitter:

Zimmer, Inc.

P.O. Box 708

Warsaw, IN 46581-0708

Contact Person:

Dalene T. Binkley, RAC

Senior Associate, Regulatory Affairs

Telephone: (574) 372-4907

Fax: (574) 372-4605

Date:

July 3, 2007

Trade Name:

Zimmer® M/L Taper Hip Prosthesis with KinectivTM

Technology System

Common Name:

Total Hip Prosthesis

Classification Name and Reference:

1. KWA - Hip joint metal/metal semi-constrained with uncemented acetabular shell, 21 CFR § 888. 3330

2. JDL - Hip joint metal/metal semi-constrained with cemented acetabular shell, 21 CFR § 888. 3320

3. LPH - Prosthesis, hip, semi-constrained metal/polymer porous uncemented, 21 CFR § 888. 3358

4. LWJ - Prosthesis, hip, semi-constrained metal/polymer uncemented, 21 CFR § 888. 3360

5. MEH - Prosthesis, hip, semi-constrained uncemented metal polymer, non-porous, calcium phosphate, 21 CFR § 888. 3353

Predicate Device:

Zimmer® M/L Taper Hip Prosthesis with Modular Neck Technology, manufactured by Zimmer, Inc., K063251, cleared January 24, 2007.

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Device Description:

The Zimmer M/L Taper Hip Prosthesis with Kinectiv Technology System is a modular, wedge-shaped stem that is coated with commercially pure titanium alloy plasma spray.

The modular neck options allow for soft tissue balancing and easier restoration of the hip joint center of rotation. The modularity feature will allow surgeons to independently equalize leg length and optimize offset while, at the same time, maximizing joint stability for a variety of patient anatomies.

Intended Use:

Total hip replacement for the following: severe hip pain and disability due to rheumatoid arthritis, osteoarthritis, traumatic arthritis, polyarthritis, collagen disorders, avascular necrosis of the femoral head, nonunion of previous fractures of the femur; congenital hip dysplasia, protrusio acetabuli, slipped capital femoral epiphysis; disability due to previous fusion; previously failed endoprostheses, and/or total hip components in the affected extremity and acute femoral neck fractures.

Hemi-hip replacement for the following: fracture dislocation of the hip; elderly, debilitated patients when a total hip replacement is contraindicated; irreducible fractures in which adequate fixation cannot be obtained; certain high subcapital fractures and comminuted femoral neck fractures in the aged; nonunion of femoral neck fractures; secondary avascular necrosis of the femoral head; pathological fractures of the femoral neck; and osteoarthritis in which the femoral head is primarily affected.

This femoral stem is for cementless use only.

Comparison to Predicate Device:

The Zimmer M/L Taper Hip Prosthesis with Kinetiv Technology System is packaged, manufactured, and sterilized using the same materials and processes as its predicate. The subject device also has the same intended use and fixation methods as the predicate device.

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Performance Data (Nonclinical and/or Clinical):

Non-Clinical Performance and Conclusions:

Non-clinical testing demonstrated that the *Zimmer* M/L Taper Hip Prosthesis with *Kinectiv* Technology System met performance requirements and is as safe and effective as its predicate.



DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Zimmer, Inc.

JUL 3 0 2007

% Ms. Dalene T. Binkley Senior Associate, Corporate Regulatory Affairs P.O. Box 708 Warsaw, Indiana 46581-0708

Re:

K071856

Trade/Device Name: Zimmer® M/L Taper Hip Prosthesis with

Kinectiv® Technology System

Regulation Number: 21 CFR 888.3330

Regulation Name: Hip joint metal/metal semi-constrained,

with an uncemented acetabular component, prosthesis

Regulatory Class: Class III

Product Code: KWA, JDL, LPH, LWJ, MEH

Dated: July 3, 2007 Received: July 5, 2007

Dear Ms. Binkley:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set

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forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at (240) 276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or the Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Mark N. Melkerson

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

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cc: HFZ-401 DMC

HFZ-404 510(k) Staff

HFZ-410 DGRND

D.O.

f/t:JSG:afb:7/30/07

OC Numbers:

Division of Enforcement A	240-276-0115
Dental, ENT and Ophthalmic Devices Branch	240-276-0115
OB/GYN, Gastro. & Urology Devices Branch	240-276-0115
General Hospital Devices Branch	240-276-0115
General Surgery Devices Branch	240-276-0115
Division of Enforcement B	240-276-0120
Cardiovascular & Neurological Devices Branch	240-276-0120
Orthopedic, Physical Medicine & Anesthesiology Devices and Radiological Devices	240-276-0120

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Indications for Use

510(k) Number (if known):

Device Name:

Zimmer[®] M/L Taper Hip Prosthesis with Kinectiv[™] Technology System

Indications for Use:

Total hip replacement for the following: severe hip pain and disability due to rheumatoid arthritis, osteoarthritis, traumatic arthritis, polyarthritis, collagen disorders, avascular necrosis of the femoral head, nonunion of previous fractures of the femur; congenital hip dysplasia, protrusio acetabuli, slipped capital femoral epiphysis; disability due to previous fusion; previously failed endoprostheses, and/or total hip components in the affected extremity and acute femoral neck fractures.

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This femoral stem is for cementless use only.

Prescription Use X (Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use ____(21 CFR 807 Subpart C)

(Please do not write below this line - Continue on another page if needed)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Division Sign-Off)

Division of General, Restoration

and Neurological Devices

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510(k) Number K071856